UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/051,569	01/17/2002	M.V. Ratna Reddy	TI-32549	9005

23494 7590 12/15/2005

TEXAS INSTRUMENTS INCORPORATED
P O BOX 655474, M/S 3999
DALLAS, TX 75265

EXAMINER	
LAMB, TWYLER MARIE	

ART UNIT	PAPER NUMBER
2622	

DATE MAILED: 12/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/051,569	REDDY ET AL.	
	Examiner	Art Unit	
	Twyler M. Lamb	2622	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *17 January 2002*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-11* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☒ Claim(s) *7-11* is/are allowed.

6)☒ Claim(s) *1-4* is/are rejected.

7)☒ Claim(s) *5 and 6* is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date *1/17/02*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wood et al. (Wood) (US RE38, 732 E) in view of Boliek et al. (Boliek) (US 6,510,246).

With regard to claims 1 and 8, Wood discloses a method of generating an image having a plurality of bands (col 5, lines 11-33), comprising the steps of: receiving a page description representative of elements of the image (col 6, lines 20-46); building a display list buffer having a plurality of display list elements (DLE) derived from the page description, each display list element being representative of a corresponding graphic item (col 6, lines 47-57); and building a banded display list representative of the plurality of bands of the image (col 6, lines 63-67).

Wood does not expressly teach wherein for each band of the plurality of bands a set of templates is stored in the landed display list in which each template points to a DLE in the display list buffer for each corresponding graphic item that is spawned within the band.

Boliek discloses an image compression method that includes wherein for each band of the plurality of bands a set of templates is stored in the landed display list in

which each template points to a DLE in the display list buffer for each corresponding graphic item that is spawned within the band (col 7, line 16 – col 9, line 30).

Wood & Boliek are combinable because they both compress image data.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify Wood to include the wherein for each band of the plurality of bands a set of templates is stored in the landed display list in which each template points to a DLE in the display list buffer for each corresponding graphic item that is spawned within the band.

The suggestion/motivation for doing so would have been reduce the amount of memory required to store the image while maintaining the quality as taught by Boliek in col 9, lines 21-30.

Therefore, it would have been obvious to combine Wood with Boliek to obtain the invention as specified in claim 1.

With regard to claim 2, Wood does not expressly teach further comprising the step of rendering each band by using the set of templates stored for that band to access a corresponding set of DLES from the display list buffer.

Boliek discloses an image compression method that includes further comprising the step of rendering each band by using the set of templates stored for that band to access a corresponding set of DLES from the display list buffer (col, lines 11-20).

Wood & Boliek are combinable because they both compress image data.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify Wood to include the further comprising the step of rendering

each band by using the set of templates stored for that band to access a corresponding set of DLES from the display list buffer.

The suggestion/motivation for doing so would have been reduce the amount of memory required to store the image while maintaining the quality as taught by Boliek in col 9, lines 21-30.

Therefore, it would have been obvious to combine Wood with Boliek to obtain the invention as specified in claim 2.

With regard to claim 3, Wood does not expressly teach wherein each template contains an opcode field that describes the DLE being pointed to.

Boliek discloses an image compression method that includes wherein each template contains an opcode field that describes the DLE being pointed to (col, lines 11-20).

Wood & Boliek are combinable because they both compress image data.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify Wood to include wherein each template contains an opcode field that describes the DLE being pointed to.

The suggestion/motivation for doing so would have been reduce the amount of memory required to store the image while maintaining the quality as taught by Boliek in col 9, lines 21-30.

Therefore, it would have been obvious to combine Wood with Boliek to obtain the invention as specified in claim 3.

With regard to claim 4, Wood does not expressly teach wherein each template contains a number of elements field that specifies a number of elements of a vector DLE being pointed to that falls within the band.

Boliek discloses an image compression method that includes wherein each template contains a number of elements field that specifies a number of elements of a vector DLE being pointed to that falls within the band (col, lines 11-20).

Wood & Boliek are combinable because they both compress image data.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify Wood to include wherein each template contains an opcode field that describes the DLE being pointed to.

The suggestion/motivation for doing so would have been reduce the amount of memory required to store the image while maintaining the quality as taught by Boliek in col 9, lines 21-30.

Therefore, it would have been obvious to combine Wood with Boliek to obtain the invention as specified in claim 4.

Allowable Subject Matter

3. Claims 5 and 6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

4. Claim 7-11 is allowed.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Twyler M. Lamb whose telephone number is 571-272-7406. The examiner can normally be reached on Mon, Tues and Thurs 6:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward L. Coles can be reached on 571-272-7402. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Twyler M. Lamb
Primary Examiner
Art Unit 2622